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ANNUAL REPORT

OF THE

State Board of Health

FOR THE

Year Ending December 31, 1912



SALEM, OREGON :

STATE PRINTING DEPARTMENT

1913

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AUG 25 '41

The Annual Report of the State Board of Health for the Year Ending December 31, 1912

Herewith is submitted the report of the energies and activities of the State Board of Health, together with the work of the Laboratory and of the State Health Officer for the year ending December 21, 1912.

The Board held six meetings during the year. At the first one, March 30, 1912, a conference of all the city and county health officers in the State held a two days' session in Portland. Practical demonstrations were given in the differential diagnosis of epidemic and contagious diseases; methods were adopted for uniform collection of vital statistics; the necessity for increased or modified legislative power was discussed; and the co-operation of the public school system with the State Board of Health for better sanitary surroundings, particularly in the country schools, was advocated, the Superintendent of Public Instruction taking part in the exercises. The Board instructed the Secretary to visit as many as possible of the public schools under construction throughout the State and offer the services of the Board with those of its consulting engineer in obtaining hygienic buildings and surroundings. A conference was held with the State Game Warden and Fish Commissioner and notices calling attention to the danger of pollution of streams were printed on cloth to be posted by the deputy game wardens as well as the officers of the United States Forestry Service.

At the meeting held July 12, 1912, on account of the prevalence of rabies in the city of Portland, the Secretary met with the City Council and the city health authorities and had passed a muzzling ordinance to protect the public from rabies. As will be shown later in this report this ordinance was only half-heartedly enforced.

At the September meeting, Rules 39-40, forbidding spitting on the floor or in the aisle of any railway train or street car operating in the State of Oregon, and forbidding passengers putting their feet upon the seats. Cards bearing this rule were ordered printed and distributed to the heads of the various railroads. The Secretary was instructed to have samples of water taken from all of the swimming tanks in the State to be examined in the laboratory, and, if found

seriously contaminated, to suggest some means of purification or treatment of the water. This was done, and many of the public and private swimming pools have since been equipped with circulating systems and the water treated with hypochlorite of lime, practically obviating the possibility of contracting typhoid fever therefrom.

A special meeting was held in Pendleton in November, where a very careful sanitary survey was made of the watershed and springs known as Thorn Hollow, the proposed source of water supply for the city of Pendleton, and the Board recommended the adoption of this supply provided the watershed could be acquired by the city and could be properly fenced and policed to avoid infection. The Secretary was instructed to communicate with the owners of Foley and Bingham Springs and other resorts situated on the various mountain streams, calling their attention to the State law prohibiting the pollution of streams. Resolutions were adopted urging the coming session of the Legislature to take measures to adopt a sewage disposal plant for the Eastern Oregon Insane Asylum and to forbid the city of Pendleton emptying sewage into the Umatilla River.

At the annual meeting held in the State House in Salem the report of Mr. L. C. Kelsey, the consulting engineer of the Board, dealing with the feasibility of bringing water from Clear Lake to Salem and supplying all of the towns of the Willamette Valley from Springfield to Salem, including State Institutions, was discussed, and the report was adopted. A warrant for \$1,000.00 was ordered drawn for the preliminary survey. The report was ordered printed so that copies could be had for distribution to all of the officers of the cities interested in the proposed supply. One thousand copies were printed. It is the earnest hope of the Board that this plan may yet be adopted and that the problem of a pure water supply that will exclude the possibility of typhoid fever from the Willamette Valley for all time to come will reach an early solution. A new bill dealing with the control of the spread of tuberculosis, providing for the reporting of all cases with a heavy penalty for failure to do so, requiring the renovation and disinfection of all houses and apartments occupied by consumptives, was drawn by the Board to be submitted to the 1913 session of the Legislature.

The Board continued its policy of public education during the year, and bulletins were issued at stated intervals giving not only the vital statistics of the State by counties but dealing with questions of current interest. One on Sex Truths for Men has had a distribution of sixty thousand copies; others were on Collection of Vital Statistics; Duties of County Health

Officers; Prescription Fakes, giving in detail the pernicious frauds of the so-called Health and Beauty fakes in the Sunday papers throughout the State, and exposing the petty frauds perpetrated under this guise; Legislation, showing the need of some better method in controlling consumption and preventing typhoid, more uniform fumigation, and other topics of popular interest.

The Secretary, or some member of the Board has visited every county in Oregon, save two, making sanitary surveys of the water supplies and giving addresses before various organizations throughout the State. The Board of Health co-operated with the Social Hygiene Society and contributed \$1,600.00 of the funds given them in carrying on the work of this organization. The Secretary and other members of the Board attended over a hundred meetings held under the auspices of this Society where lectures were given on the prevention of venereal diseases or some kindred topic allied with the work of the Society. That this work has been well received and that the expense incurred therein has been well worth the cost is evidenced by the interest that other State Boards of Health have taken in this movement. Representatives of nearly all the States in the Union have called at the office of the Board and the publications have been sent to every State in the Union as well as to most foreign countries, this only on request. A poster calling attention to the danger of these diseases and the amount of misinformation in vogue was prepared, framed, and covered with glass, and nearly two thousand of these have been posted in public buildings and on railway trains throughout the State.

The State Board of Health, through its Secretary, has given a series of lectures on hygiene and sanitation before the students of the North Pacific Dental College and the Medical Department of the University of Oregon, these covering a regular, definite course of instruction of twelve lectures in the former institution and twenty-four in the latter.

Of five prosecutions attempted by the Board for violation of the Public Health laws, exclusive of all those done by the Dairy and Food Commissioner and the city of Portland under ordinances, all but one were decided in favor of the Board, and this one, an injunction suit against the city of Silverton, restraining it from the pollution of Silver Creek, is yet to be tried.

Upon instruction from the Board the Secretary attended the International Congress on Hygiene and Demography held in Washington, September 23-28, 1912. An exhibit showing the work of this Board was displayed in the building assigned for the purpose in Washington. Moving picture films showing our State institutions, the resources of the country,

climatic conditions, etc., were shown daily. A bronze medal was awarded the Board for the exhibit made.

The Secretary visited and inspected the offices and laboratories of the State Boards of Health of Illinois, Indiana, Pennsylvania, Maryland, District of Columbia, New York, and Massachusetts, and from these derived valuable suggestions in conducting the work of this office.

There were during the year 1912, 11,139 births registered in the State of Oregon, giving a birthrate of practically 16.5 per thousand. While it is an unfortunate fact that this does not record all the births, yet, save for the rare few occurring in isolated districts and attended by midwives, our birth records are practically complete.

There were, during the same time, 5,898 deaths, or a mortality of 8.8 as estimated from the U. S. Census of the population of 1910. While this rate, to one versed in statistics would seem impossible, yet a moment's reflection will show that this is practically correct. Our census shows that we have one hundred thousand more men than women in the State; it further shows that in a large number of the so-called frontier counties there are very few old people, and, of necessity, very few that are very young, as the whole State is populated rather by people in the very active walks of life excluding both the very old and the very young. This, added to the further fact that in none of our cities are there any tenement districts, that our climate is equable and there is little suffering from extreme heat or extreme cold, that food of every description is abundant and within reach of almost everyone, that crowded housing conditions do not as yet concern us, while our mountain streams offer supplies of pure water that need not be filtered or treated, will make for this country a mortality rate that will always be lower than that of some of our most favored Eastern States.

BIRTHS AND DEATHS IN OREGON, 1912.

BIRTHS FOR YEAR ENDING DECEMBER 31, 1912				DEATHS FOR YEAR ENDING DECEMBER 31, 1912			
County	Male	Female	Total	County	Male	Female	Total
Baker	137	119	256	Baker	101	53	154
Benton	136	113	249	Benton	44	32	76
Clackamas ..	312	281	593	Clackamas ..	113	80	193
Clatsop	146	162	308	Clatsop	127	52	179
Columbia	92	107	199	Columbia	51	22	73
Coos	182	154	336	Coos	62	34	96
Crook	63	75	138	Crook	24	21	45
Curry	11	7	18	Curry	8	3	11
Douglas	195	182	377	Douglas	130	60	190
Gilliam	27	19	46	Gilliam	10	5	15
Grant	23	27	50	Grant	28	10	38
Harney	24	32	56	Harney	25	12	37
Hood River..	102	76	178	Hood River..	32	36	68
Jackson	190	152	342	Jackson	137	91	228
Josephine	78	68	146	Josephine	65	34	99
Klamath	55	43	98	Klamath	38	20	58
Lake	21	17	38	Lake	4	1	5
Lane	251	274	525	Lane	186	119	305
Lincoln	28	22	50	Lincoln	19	15	34
Linn	266	226	492	Linn	124	89	213
Malheur	39	36	75	Malheur	17	13	30
Marion	315	276	591	Marion	305	181	486
Morrow	32	48	80	Morrow	13	11	24
Multnomah ..	2,072	1,921	3,993	Multnomah ..	1,411	954	2,365
Polk	132	123	255	Polk	66	40	106
Sherman	18	25	43	Sherman	6	1	7
Tillamook ..	55	62	117	Tillamook	30	18	48
Umatilla	123	98	221	Umatilla	87	55	142
Union	153	128	281	Union	80	44	124
Wallowa	88	66	154	Wallowa	28	19	47
Wasco	107	119	226	Wasco	78	48	126
Washington ..	175	162	337	Washington ..	72	65	137
Wheeler	12	12	24	Wheeler	1	1	2
Yamhill	134	113	247	Yamhill	84	53	137
Total	5,794	5,345	11,139	Total	3,606	2,292	5,898

TUBERCULOSIS.

There were 624 deaths from tuberculosis in 1912 as against 705 the previous year. This decrease in number of deaths despite our increase in population is very encouraging to those engaged in active measures against the Great White Plague. With the new law governing the reporting of all cases of tuberculosis and the proper disinfection and renovation of premises occupied by consumptives, it is sincerely hoped that the State will be able to make even a better showing.

The table of the distribution of the cases according to locality is, as usual, interesting. While in those counties west of the Cascade Mountains nearly ten per cent of all the deaths are due to tuberculosis, in those east of the Cascades, except those lying in the Columbia Basin, the percentage is much decreased. For illustration: Morrow County had only one death in twenty-five, while Crook, exclusive of the Indians, had three out of forty-five. Harney reported no deaths from tuberculosis out of a total mortality of thirty-seven. The entire table showing the distribution of these deaths is printed herewith.

DEATHS FROM TUBERCULOSIS, 1912.

County	Deaths from Tuberculosis	Deaths, all causes	County	Deaths from Tuberculosis	Deaths, all causes
Baker	10	154	Linn	13	213
Benton	5	76	Malheur	3	30
Clackamas	25	193	Marion	75	486
Clatsop	22	179	Morrow	1	24
Columbia	8	73	Multnomah	47	2,365
Coos	3	96	(City of Portland, 232)		
Crook	5	45	Polk	11	106
(2 Indians)			Sherman	1	7
Curry	1	11	Tillamook	3	48
Douglas	25	190	Umatilla	10	142
Gilliam	1	15	Union	7	124
Grant	1	38	Wallowa	1	47
Harney	0	37	Wasco	20	126
Hood River	7	68	(3 Indians)		
Jackson	20	228	Washington	13	137
Josephine	5	99	Wheeler	0	2
Klamath	6	58	Yamhill	11	137
Lake	0	5	Total	392	5,898
Lane	29	305	Inc. Portland..	624	
Lincoln	3	34			

CANCER.

There were 383 deaths from cancer in 1912 as against 360 in 1911, showing in this as well as every other state a marked increase in the number of cancers. They were divided as follows: Cancer of the buccal cavity, 26 males, 9 females; of the stomach and liver, 105 males, 72 females; of the intestines and peritoneum, 25 males, 21 females; 46 females died of cancer of the pelvic organs, and 33 of cancer of the breast; unspecified, 23 males, 15 females. Of the total number, 285 were over fifty years of age and 98 were less than fifty years. Of the females, all but two were or had been married.

An interesting question in this State is the matter of locality. For illustration: Yamhill had a total of 116 deaths;

16 were from cancer. Marion, out of a total of 486 deaths, had but 19 from cancer.

That this condition is rapidly approaching the seriousness of tuberculosis is manifest, and the result of the research work being done all over the country in the matter of its causation with the hope of finding either a cure or a preventive is certainly most anxiously awaited.

SMALLPOX.

Of smallpox there were 708 cases with 5 deaths. Several malignant cases occurred in Multnomah County and a mild infection has been endemic in Southern Wasco County for nearly the whole year. Other outbreaks, notably at Toledo, Lincoln County, subsided on the enforcement of compulsory vaccination.

DIPHTHERIA.

There were 236 cases of diphtheria with 19 deaths. This compared with 365 cases in 1911 and 537 cases in 1910 shows, in the opinion of the Board, that the marked decrease in this dread disease has been brought about by the abolition of the common drinking cup. Only two other things need to be done to eliminate the mortality of diphtheria entirely. First, the early recognition of the disease, and second, the early use of anti-toxin. The antagonism to the latter procedure we are glad to see has practically died out in all intelligent communities.

GOITRE.

Our mortality rate from goitre is markedly decreased and the total number of cases reporting for treatment are evidently showing some decrease. There were 6 deaths in 1912 as against 10 in 1911 and 15 the previous year.

SCARLET FEVER.

There were 581 cases of scarlet fever with 15 deaths, the largest epidemics occurring in the city of Portland and the next largest in Clackamas County. This, too, shows a marked decrease. In 1911, 772 cases were reported with 40 deaths.

DISEASES OF THE CIRCULATORY SYSTEM.

There were 775 deaths due to diseases of the circulatory system; this including practically all those cases dying over seventy years of age.

VIOLENT DEATHS.

There were 117 suicides, 89 males and 28 females; 25 males and 17 females took poison, the larger number using carbolic acid, illustrating that some further precautions must be taken in the sale of this drug; 8 males and 2 females suicided by hanging; 5 males and 3 females by drowning; and 46 males and 4 females by the use of firearms.

Of all forms of external violence there were 603 deaths, of which 24 were murders; 104 males and 10 females were drowned, the Columbia River claiming most of these; 25 males and 2 females died from accidental gunshot wounds; 81 males and 15 females died as the result of fracture of the skull, and 20 males and 10 females from burns and scalds.

TYPHOID.

There were 401 cases of typhoid fever reported with 88 deaths, the largest outbreak being that which occurred at Oregon City, where 105 cases were reported. The section gangs working along the railroads were constantly furnishing our hospitals with cases of the disease, showing the imperative necessity for some better means of sewage disposal on trains.

In Eastern Oregon polluted irrigation ditches caused many cases, and an outbreak in Phoenix, Jackson County, the result of infected wells and irrigation ditches, accounted for many more.

RABIES.

In 1912 the first cases of rabies west of the Cascade Mountains appeared in Multnomah County. Five people were treated with anti-rabic virus received from the Hygienic Laboratory at Washington. In all these cases there were no deaths and no ill effects from the treatment. The Board wishes to express its appreciation to the Hygienic Laboratory at Washington, and particularly to Dr. John F. Anderson for his assistance in corroborating the diagnoses made in this Laboratory, and furnishing the virus for the treatment of these cases. The heads of thirty-eight animals were examined for rabies: 26 dogs, 6 cats, 4 coyotes, and 2 hogs. Many heads aside from these were sent to the Laboratory for examination, but, owing in some cases to failure to pack them in ice, and in others to remove the brain before shipping, they arrived in a state of decomposition too great to permit of microscopic examination.

WATER.

The results of the water analyses together with the report of the localities from which they came are appended herewith.

That many of these reports, from a health standpoint, are of very little value is evidenced by a careful reading of the analyses. Despite constant urging from this office, samples of water are constantly received that have not been packed in ice and that have been gathered several days before sending and the temperature of the water has consequently been raised several degrees from that of its origin. The further fact that samples are frequently carelessly taken and the containers are not always sterile makes the bacterial count in many of these analyses misleading. However, the presence of colon bacilli in any water supply, particularly in the face of any enteric disorder, is one that warrants further investigation.

WATER REPORTS.

Date	Location	Name	No. of Organ- isms per c. c.	Colon Bacilli	
				Pos- itive	Neg- ative
6-24	Airlie	N. L. Fisher.....	13500	+	
8- 2	Airlie	N. L. Fisher.....	1500	+	
5-28	Albany	C. A. Ekstrand.....	33480		—
9-21	Ashland	Mary E. Hopper.....	4860	+	
12-19	Ashland	F. G. Swedenberg.....	10		—
12-20	Ashland	F. G. Swedenberg.....	13500	+	
		F. G. Swedenberg.....	8500		—
5- 8	Astoria	Dr. R. J. Pilkington.....	28620	+	
8-31	Astoria	Dr. Nellis Vernon.....			
		McClane Spring.....	4860	+	
		Westport Tank	10800	+	
		Westport Intake	4320	+	
		Westport School	2220	+	
		T. K. Nivison.....	23220	+	
6-27	Aurora	Dr. B. F. Glesey.....	12420	+	
9-23	Aurora	Dr. B. F. Glesey.....	2160	+	
11-22	Aurora	H. Kummer	75		
12-18	Aurora	J. J. Hopper.....	23220	+	
7-30	Beaverton	C. H. Higley.....	250	+	
10-23	Bly	Mrs. A. R. Kincaid.....	1080		—
11-15	Boring	W. R. Telford.....			
		School District No. 44.....	300	+	
4-16	Brightwood	H. Raidhel	1080		—
1-23	Brownsville	Dr. Howard	7560	+	
2-23	Brownsville	Ed. Williams	19990	+	
3-29	Brownsville	Dr. J. E. Williams.....	400		—
5-28	Brownsville	Dr. E. W. Howard.....			
		City Water	1540	+	
		Nenner's Well	14140	+	
6-26	Brownsville	Dr. E. W. Howard.....			
		Ed. Sawyer	21080	+	
		William Burgess	25380	+	
		City Water	50500	+	
7-15	Brownsville	E. D. Starr.....			
		Glen McFarland	31860	+	
		E. D. Starr.....	29600	+	
		C. H. McFarland.....	14580	+	
7-16	Brownsville	J. W. Bolin.....	29700		—
7-16	Brownsville	H. K. Well.....	2700	+	
7-18	Brownsville	L. D. Vidito.....			
		Seth Raestrick	8300	+	
		J. B. Howe	22140	+	
		S. B. Ticer	49420	+	
		A. L. Kirk.....	7200	+	
		Lester Walker	3		—
		L. D. Vidito.....	23760	+	
		W. W. Rober.....	22780	+	
7-24	Brownsville	Dr. E. W. Howard.....	520		—
		City Water Intake.....	7500	+	
		Calapooya River	1000	+	
2- 6	Buxton	F. E. Genzer.....	2160	+	
2-21	Buxton	F. E. Genzer.....	1000		—
10-26	Canby	Dr. H. A. Dedman.....	5940	+	
10-30	Canby	Huntley Bros.....	550	+	
11-17	Canby	Dr. H. A. Dedman.....	215		—
9-23	Carlton	I. M. Smith.....	16740	+	
10-14	Carlton	J. W. Cane.....	6480		—
11- 8	Carlton	Ida Mae Smith.....	7580		—
8-29	Cleone	P. G. Gantenbein.....	1080	+	
3-13	Clifton	Edna P. Smith.....	5		—
		Edna P. Smith.....	13	+	
3- 6	Corvallis	Louise McAlpin.....	150		—
9-12	Cottage Grove.....	Dr. W. W. Oglesby	2		—
9-12	Cottage Grove.....	Dr. H. C. Schleefer.....	20520	+	
9-21	Cottage Grove.....	Dr. H. C. Schleefer.....	28620	+	
12- 3	Cottage Grove.....	Dr. H. C. Schleefer.....	21600	+	
		Curtis Veatch.....	25520		—
1-27	Dallas	County School Supt.....	10		—
		County School Supt.....	3		—
		County School Supt.....	10	+	
		County School Supt.....	9720	+	

WATER REPORTS—Continued.

Date	Location	Name	No. of Organ- isms per c. c.	Colon Bacilli	
				Pos- itive	Neg- ative
1-27	Dallas	County School Supt.	75	+	—
		County School Supt.	10	+	—
		County School Supt.	9180	+	—
		County School Supt.	1620	+	—
		Elkins District	2260	+	—
1-30	Dallas	Dr. A. M. McRicol	1620	+	—
2-16	Dallas	L. A. Bollman	1100	+	—
		L. A. Bollman	17900	+	—
3-5	Dallas	County School Supt.	3200	+	—
		County School Supt.	1080	+	—
		County School Supt.	180	+	—
		County School Supt.	5400	+	—
		County School Supt.	100	+	—
		County School Supt.	3240	+	—
3-9	Dallas	Dr. L. A. Bollman	3780	+	—
		Dr. L. A. Bollman	25	+	—
		Dr. L. A. Bollman	200	+	—
5-13	Dallas	Mrs. Anna Coad	4320	+	—
8-8	Dallas	Dr. L. A. Bollman	37806	+	—
7-13	Dayton	W. O. Barnard	52380	+	—
12-4	Derby	A. B. Chastraw	1200	+	—
12-16	Derby	A. B. Chastraw	4860	+	—
7-11	Drain	Dr. B. L. DeVore	250	+	—
9-4	Drain	Dr. H. A. Caulfield	4860	+	—
9-18	Eagle Point	Dr. Holt	11340	+	—
7-12	Echo	J. F. Spinning		+	—
		J. Ronde	41580	+	—
		J. Ronde	7560	+	—
		Winsler	8640	+	—
		Alec Young	65000	+	—
8-7	Echo	Dr. F. A. Dorn		+	—
		Arthur Ayers' Well	7560	+	—
12-3	Elkton	C. H. Francis	100	+	—
1-4	Eugene	B. H. Brown	400	+	—
2-8	Eugene	Dr. G. S. Beardsley	500	+	—
5-9	Eugene	S. Barker	32400	+	—
6-4	Eugene	Robert Wood	4960	+	—
8-15	Eugene	Dr. Scalfe	480	+	—
8-24	Eugene	M. Miller	1080	+	—
		M. Miller	4320	+	—
9-13	Eugene	Dr. F. W. Cumings	12960	+	—
10-9	Eugene	P. M. Stroud	120	+	—
10-24	Eugene	A. C. Guthrie	5400	+	—
11-21	Eugene	Mrs. M. F. Turner	10	+	—
12-7	Eugene	George D. Heitzman	2600	+	—
12-28	Eugene	Dr. F. W. Cumings	2700	+	—
		Dr. Marks' Well	150	+	—
5-29	Florence	Dr. Edwards	540	+	—
1-20	Freewater	J. A. Cavanaugh	540	+	—
2-5	Freewater	J. A. Cavanaugh	510	+	—
9-16	Freewater	J. A. Cavanaugh	3780	+	—
9-24	Gardiner	Frank Pratt		+	—
		Residence Reedsport	10260	+	—
		Spring	26460	+	—
		Residence Gardiner	14040	+	—
		Gardiner Hotel	3700	+	—
		Chabandy Farm	30780	+	—
12-9	Gervais	Mrs. Kate Weist	450	+	—
7-30	Gladstone	H. C. Prudhomme	450	+	—
8-21	Gladstone	H. C. Prudhomme	18360	+	—
12-22	Gladstone	J. H. Pratee	1620	+	—
5-18	Glendale	H. R. Kauffman		+	—
		Hall & Ogden Well No. 1	500	+	—
		Hall & Ogden Well No. 2	5	+	—
9-30	Glendale	H. R. Kauffman		+	—
		Flume Looney	1080	+	—
		Looney Ditch	3240	+	—
		Section Creek	1620	+	—
		Looney's Well	1420	+	—
1-27	Gold Hill	D. C. Henry	2160	+	—
		D. C. Henry	50	+	—

WATER REPORTS—Continued.

Date	Location	Name	No. of Organ- isms per c. c.	Colon Bacilli	
				Pos- itive	Neg- ative
2-14	Gold Hill	D. C. Henry	22680	+	
4-9	Gold Hill	F. W. Dodge	4320		—
8-22	Gold Hill	D. C. Henry			
		School District No. 18	1620	+	
		School District No. 50	2160	+	
8-26	Gold Hill	D. C. Henry			
		School District No. 17	23220	+	
		School District No. 20	18360	+	
		School District No. 52	10800	+	
9-18	Gold Hill	D. C. Henry			
		School District No. 61	7560	+	
		School District No. 61	10260	+	
		School District No. 61	4860	+	
		School District No. 57	21600	+	
9-25	Gold Hill	D. C. Henry			
		School District No. 57	7560	+	
		School District No. 57	41580	+	
		School District No. 52	1620		—
		School District No. 17	30240	+	
10-3	Gold Hill	D. C. Henry			
		School District No. 62	1	+	—
		School District No. 26	540	+	
		School District No. 79	2160	+	
3-26	Grants Pass	Dr. E. N. Bywater	500	+	
		Dr. E. N. Bywater	100	+	—
8-12	Halsey	Frاند Hadley	137	+	
6-13	Harrisburg	Dale & Long	10260	+	
7-16	Heppner	F. E. Boyden	2160	+	
8-30	Heppner	Dr. W. E. Winnard	25340	+	
		Dr. W. E. Winnard	29700	+	
11-8	Heppner	Dr. W. E. Winnard	23760	+	
		Dr. W. E. Winnard	2700	+	
1-29	Hermiston	Dr. B. G. Monkman	4860		—
4-6	Hermiston	F. C. McKenzie	100		—
		F. C. McKenzie	110		—
		F. C. McKenzie	125	+	
		F. C. McKenzie	50	+	
4-24	Hermiston	M. W. McKenzie	15		—
		M. W. McKenzie	25	+	
5-18	Hermiston	Dr. B. G. Monkman			
		Jacob Steik	150		—
		F. M. Price	250	+	
		Monkman	500	+	
		Bland Hall	4320	+	
5-18	Hermiston	Robert E. Allen			
		Peyton T. Boone No. 1	5400	+	
		Peyton T. Boone No. 2	3780	+	
8-7	Hermiston	Dr. B. G. Monkman	8100		—
		City Well	4320		—
		Claude Upham	40		—
		E. P. Dodd	780	+	
		Lew Reeder	1020	+	
		Bakery	1680		—
12-28	Hermiston	John F. Riehl	250		—
1-16	Hillsboro	Dr. W. D. Wood	12	+	
		Panther Creek	14		—
		East Dairy	24	+	
		Roundy Creek	15		—
		Campbell Creek	17		—
		R. & D. Creek	20	+	
3-4	Hillsboro	Withycomb	12		—
10-4	Hillsboro	Dr. W. D. Wood	540	+	
		Dr. W. D. Wood	1		—
12-27	Hillsboro	Dr. J. C. Robb			
		Craig's Well	300	+	
		Horton's Well	1620	+	
5-20	Hillsdale	Mrs. F. A. Jennings	200		—
7-6	Hillsdale	Fred Maulf	500	+	
12-16	Hillsdale	E. F. Livingstone	5940	+	
5-3	Hood River	Dr. Edmington			
		Big Lower Reservoir	500	+	

WATER REPORTS—Continued.

Date	Location	Name	No. of Organ- isms per c. c.	Colon Bacilli	
				Pos- itive	Neg- ative
5- 3	Hood River	Adams Spring	600	+	
6- 8	Hood River	J. H. Taylor	1080		—
		Charles W. Reed	500	+	
6-29	Hood River	F. H. Taylor	15		—
8- 2	Hood River	F. H. Taylor	8580	+	
8-22	Hood River	Dr. Edmington	13	+	
		Dr. Edmington	8860	+	
		Dr. Edmington	25	+	
		Dee	75		—
		Hotel Dee	4860	+	
8-29	Hood River	Dr. Edmington	1500		
		Dr. Edmington	1620	+	
10- 9	Hood River	H. M. Francis			
		School Well	540		—
9-19	Hugo	Lettie McKay	21600	+	
10- 3	Hugo	H. E. Heller	7560	+	
11-26	Hugo	H. E. Heller	540	+	
11- 9	Independence	Hirschberg			
		North Independence	2700		—
		Center of town	75		—
		West Independence	89	+	
2- 5	Ione	D. Chick	540	+	
		D. Chick	3240	+	
3-19	Ione	D. Chick	100		—
		D. Chick	500		—
6- 5	Junction City	Joe Harmon	500	+	
6-19	Junction City	Joe Harmon	150	+	
4-26	Kingsbury	Dr. C. S. White	1150	+	
5-28	Kinneyville	Robert Wood	1080	+	
		Robert Wood	6		—
1- 3	Klamath Falls	Dr. R. R. Hamilton	1080		—
		Dr. R. R. Hamilton	1620		—
		Dr. R. R. Hamilton	5400		—
		Dr. R. R. Hamilton	150		—
		Dr. R. R. Hamilton	6480	+	
		Dr. R. R. Hamilton	2700		—
2- 5	Klamath Falls	Dr. R. R. Hamilton	3780		—
		Dr. R. R. Hamilton	640	+	
2- 5	Klamath Falls	Dr. R. R. Hamilton	10080	+	
		Dr. R. R. Hamilton	1070	+	
2-19	Klamath Falls		19440	+	
3-11	Klamath Falls	Dr. R. R. Hamilton	150	+	
		Dr. R. R. Hamilton	50		—
		Dr. R. R. Hamilton	200		—
		Dr. R. R. Hamilton	45		—
7-12	Klamath Falls	Dr. L. W. Chilton	11880	+	
10-26	Klamath Falls	Dr. L. L. Truax	4320	+	
		Dr. L. L. Truax	12960	+	
11-18	Klamath Falls	Dr. L. L. Truax	75		—
		Dr. L. L. Truax	150	+	
2- 7	La Grande	Dr. H. L. Underwood	5400		—
4-11	La Grande	Underwood	18900	+	
6-13	La Grande	A. F. Howell	16200	+	
8- 5	La Grande	Dr. H. L. Underwood	30000		—
11-18	La Grande	Dr. H. L. Underwood	36180	+	
12-27	La Grande	Grande Ronde Meat Co.	16280	+	
1-30	Lebanon	Dr. J. C. Booth	9180	+	
		Dr. J. C. Booth	21060	+	
4-18	Lents	J. Alec Chambers	540	+	
10-14	Marshfield	Lockhart & Parsons	2		—
11-15	Marshfield	Dr. Hausenworth			
		John Olsen	17820		—
11-25	Marshfield	Coos Bay Water Co.	1620	+	
		Coos Bay Water Co.	5400	+	
12- 3	Marshfield	R. H. Conley	150	+	
		Coos Bay Water Co.	180	+	
		Coos Bay Water Co.	175	+	
1-29	Medford	F. C. Clayville	1080	+	
4-25	Medford	Mrs. A. S. Parsons	250	+	
9-19	Medford	Dr. H. E. Morrison	16740	+	
10- 2	Medford	G. H. Grove	19980	+	

WATER REPORTS—Continued.

Date	Location	Name	No. of Organ- isms per c. c.	Colon Bacilli	
				Pos- itive	Neg- ative
10- 7	Medford	Dr. H. E. Morrison.....			
		Talent School Well.....	4860	+	
		Drinking Fountain	21060	+	
10-21	Medford	Dr. H. E. Morrison.....	75		
1-17	Milwaukie	B. L. Hageman.....	50	+	—
2-14	Milwaukie	E. C. Jennings.....	25		
4-26	Milwaukie	Mrs. C. Tapper.....	1080	+	
5-14	Milwaukie	J. W. Alexander.....	500		
5-24	Milwaukie	Hendee Brothers	12		
7-17	Milwaukie	C. M. Tapper.....	6		
8- 2	Milwaukie	J. J. Johnson.....	7		
12-18	Milwaukie	J. J. Johnson.....	320	+	
12-30	Milwaukie	W. E. Kelso.....	16480	+	
		W. E. Kelso.....	41580	+	
1-23	Mollala	G. H. Gregory.....	12		
3-16	Monmouth	Anna Wood.....	1080	+	
1-13	Monroe	A. H. Scott.....	540	+	
1-18	Monroe	Dr. F. Olsen.....	1620	+	
1-18	Monroe	C. E. Bantom.....	4320		
2-28	Monroe	J. R. Buckingham.....	22140		
6-19	Monroe	T. J. Reeder.....	8640	+	
		T. J. Reeder.....	10800	+	
7-22	Monroe	W. W. Minton.....	20520	+	
1- 6	Myrtle Creek	Mabel Smith.....	8640	+	
1- 6	Myrtle Creek	D. P. Love.....	5940		
8-31	Myrtle Creek	Dr. W. W. Ashley.....	36180	+	
11-19	Newberg	Dr. J. S. Rankin.....	125	+	
12-22	Newberg	Dr. J. S. Rankin.....	14580		
4-24	Oak Grove	C. R. Grim.....	2700	+	
5-15	Oak Grove	Nosburg	450		
5-15	Oak Grove	Wilber	1620	+	
10-12	Oak Grove	St. Theresa San.....	25380		
11-18	Oak Grove	Dr. J. W. Norris.....	5400		
8- 6	Ontario	Holy Rosary Hospital.....	3120	+	
10-30	Ontario	Berwick Wood	84		
		Berwick Wood	23500	+	
1- 2	Oregon City	Powell	2160	+	
1- 5	Oregon City	Dr. J. W. Norris.....	5		
		Dr. J. W. Norris.....	150	+	
1- 6	Oregon City	Flossie Perce	400	+	
1-11	Oregon City	J. W. Norris.....	1		
		J. W. Norris.....	150	+	
1-18	Oregon City	Dr. A. C. Stewart.....	10260	+	
		Dr. A. C. Stewart.....	250		
1-26	Oregon City	Dr. J. W. Norris.....	15		
		Dr. J. W. Norris.....	25	+	
2- 2	Oregon City	Dr. J. W. Norris.....	40		
		W. H. Howell.....	20	+	
2- 5	Oregon City	W. H. Howell.....	26	+	
3- 9	Oregon City	Dr. C. H. Meisser.....	600	+	
4-20	Oregon City	Dr. H. S. Mount.....	3780	+	
		Dr. H. S. Mount.....	1080	+	
		Dr. H. S. Mount.....	300	+	
		Dr. H. S. Mount.....	500		
4-27	Oregon City	Dr. H. S. Mount.....	7020		
5-30	Oregon City	Mrs. J. E. Samson.....	2700	+	
		Mrs. J. E. Samson.....	3240	+	
7-22	Oregon City	William Bruce	540	+	
9- 5	Oregon City	Dr. J. W. Norris.....			
		W. Oregon City School.....	250	+	
		Oak Grove Sanitorium.....	2260	+	
12- 2	Oregon City	Dr. J. W. Norris.....			
		Filter Tank	4		
		Reservoir	100	+	
		7th St. Fountain.....	18		
12- 3	Oregon City	Dr. J. W. Norris.....	2		
		Dr. J. W. Norris.....	1		
		Dr. J. W. Norris.....	2	+	
12- 3	Oregon City	Dr. C. A. Stuart.....	1080		
12- 7	Oregon City	Christian Schuebal	35	+	
12- 8	Oregon City	Dr. J. W. Norris.....			

WATER REPORTS—Continued.

Date	Location	Name	No. of Organ- isms per c. c.	Colon Bacilli	
				Pos- itive	Neg- ative
12- 8	Oregon City	Reservoir	2100	+	—
		Reservoir	10		—
		Terminal Faucet	3		—
		River water from intake.....	540	+	—
12- 9	Oregon City	Dr. J. W. Norris.....			
		City Reservoir	35		—
		Well	65	+	
4-27	Oswego	C. W. West.....	175	+	
5-11	Oswego	C. W. West.....	500	+	
6-10	Oswego	C. W. West.....	300	+	
		C. W. West.....	275	+	
		C. W. West.....	290	+	
7-30	Pendleton	Dr. I. N. Temple.....	7560	+	
		Dr. I. N. Temple.....	1620		—
		Dr. I. N. Temple.....	3240	+	
		Dr. I. N. Temple.....	6580	+	
		Dr. I. N. Temple.....	31320		—
		Dr. I. N. Temple.....	4860		—
9- 5	Pendleton	John W. Kimball.....	17820	+	
12-22	Pendleton	J. W. Bailey.....	25920	+	
8- 5	Phoenix	John Cope	2760	+	
		A. H. F.	4440		—
		J. C.	1380		—
		Fuller	3840	+	
8-15	Phoenix	J. K. Baillie.....			
		Luhness	1670	+	
		Mrs. Moore	1620	+	
		Mrs. Bilott	1560	+	
		A. Rose	5700	+	
8-27	Phoenix	Dr. White			
		Gardner Well	18360	+	
		Joseph County Poor Farm...	20520		—
		Box 45	1080		—
2-16	Placer	Dr. H. S. Silverwood.....		+	
1-22	Portland	L. I. Thompson.....	4320	+	
2- 7	Portland	Dr. White	3		—
2- 7	Portland	C. R. Grim.....	540	+	
4- 1	Portland	D. H. Nichols.....	45		—
3-14	Portland	T. M. Prince.....	540	+	
4-13	Portland	M. M. Johnson.....	15		—
4-24	Portland	L. Leslie	1500	+	
5- 7	Portland	Mrs. W. G. Hall.....	4320	+	
5-24	Portland	O. M. Rankin.....	500	+	
6-15	Portland	Schulderman	1620		—
6-20	Portland	C. E. Haskell.....	37260	+	
6-29	Portland	C. S. White.....			
7-12	Portland	Columbia Fountain	150		—
		Columbia Kitchen	200		—
		Portland Fountain	125		—
		Portland Kitchen	200		—
7-15	Portland	C. E. Haskell.....	81		—
7-17	Portland	George Wilson	2160	+	
7-31	Portland	C. A. Warren.....	17	+	
8- 2	Portland	Miss Howe	3540		—
		Water from house pipe.....	30000	+	
8- 5	Portland	Dr. Yates	320		—
8- 5	Portland	M. G. Hall.....	780	+	
		M. G. Hall.....	1620	+	
8-12	Portland	Dr. Yates	180		—
		Dr. Yates	114	+	
		Dr. Yates	342	+	
8-20	Portland	Dr. Wright		+	
8-26	Portland	Dr. Wright	25920	+	
8-29	Portland	Star Sand Co.....	22680	+	
9- 6	Portland	George P. Judge.....	3780	+	
9-12	Portland	Oregon Yacht Club.....	5400	+	
		Oregon Yacht Club.....	1150	+	
		Oregon Yacht Club.....	116	+	
10- 8	Portland	Port of Portland.....			
		Str. Ocklahama Starbd.....	540	+	
		Str. Ocklahama Port.....	1620	+	



cants taking the examinations. Of these twenty-six passed and a diploma and license was granted to each. Licenses were refused the three applicants failing to pass.

The Board desires to express its appreciation to the Governor and the Secretary of State for their courtesy and assistance, and to the Superintendent of Public Instruction for his hearty co-operation in public health work in the schools, and to the Fish and Game Commissioner and State Game Warden and the United States Forest Service for their splendid co-operation and support.

[Editor's Note.—The publication of this report has been held for three months awaiting the report of the former State Veterinarian, Dr. Jules F. Morel, who has been called to Belgium, but his report has not yet been received.]